

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-35. (Canceled)

36. (Currently Amended) A stent comprising:

a tubular body having proximal and distal ends and a lumen extending therebetween, and a wall defining a web structure configured for expansion from a collapsed delivery configuration to an expanded deployed configuration, the web structure comprising a plurality of ~~neighboring~~ web patterns ~~of alternating concavity~~ that extend circumferentially around the wall, each web pattern including a plurality of ~~arcuate~~ webs interconnected by bends, ~~neighboring~~ web patterns interconnected by transition sections, at least two of the transition sections being circumferentially adjacent and separated, around the circumference of the wall, by at least three ~~arcuate webs, each web having three web sections, at least two web sections being nonparallel;~~ and

a coating on the web structure that comprises a therapeutic agent

37. (Previously Presented) The stent of claim 36, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.

38. (Currently Amended) The stent of claim 36, wherein all of the transition sections are separated by at least three ~~arcuate~~ webs.

39. (Previously Presented) The stent of claim 36, wherein the transition sections define H-shaped structures.

40. (Withdrawn) The stent of claim 39, wherein at least some of the arcuate webs span two H-shaped structures.

41. (Previously Presented) The stent of claim 39, wherein at least one of the H-shaped structures is disposed at an angle relative to a longitudinal axis of the stent.
42. (Currently Amended) The stent of claim 36, wherein each ~~arcuate~~ web comprises at least one substantially straight section.
43. (Currently Amended) The stent of claim 42, wherein each ~~arcuate~~ web comprises three substantially straight sections.
44. (Currently Amended) The stent of claim 36, wherein the at least three ~~arcuate~~ webs define an S-shaped structure between interconnections to ~~neighboring~~ web patterns.
45. (Previously Presented) The stent of claim 36, wherein the stent is balloon expandable.
46. (Previously Presented) The stent of claim 36, wherein the stent comprises a deformable material.
47. (Previously Presented) The stent of claim 46, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.
48. (Previously Presented) The stent of claim 36, wherein the stent is self-expanding.
49. (Previously Presented) The stent of claim 36, further comprising a radiopaque feature.

50. (Currently Amended) A stent comprising:

a tubular body having proximal and distal ends and a lumen extending therebetween, and a wall defining a web structure configured for expansion from a delivery configuration to a deployed configuration, the web structure comprising a plurality of ~~neighboring~~ web patterns of alternating concavity that extend circumferentially around the wall, each web pattern including a plurality of arcuate webs interconnected by bends, at least some of the ~~neighboring~~ web patterns interconnected by circumferentially adjacent transition sections separated, around the circumference of the wall, by at least two bends, each bend connected to at least two webs, each web having three web sections, at least two web sections being nonparallel; and
a coating on the web structure that comprises a therapeutic agent.

51. (Previously Presented) The stent of claim 50, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.

52. (Currently Amended) The stent of claim 50, wherein the ~~neighboring~~ web patterns are interconnected by transition sections separated, around the circumference of the wall, by at least four bends.

53. (Previously Presented) The stent of claim 50, wherein the transition sections define H-shaped structures.

54. (Withdrawn) The stent of claim 50, wherein at least some of the arcuate webs span two H-shaped structures.

55. (Previously Presented) The stent of claim 53, wherein at least one of the H-shaped structures is disposed at an angle relative to a longitudinal axis of the stent.

56. (Currently Amended) The stent of claim 50, wherein each arcuate web comprises at least one substantially straight section.

57. (Currently Amended) The stent of claim 56, wherein each ~~arcuate~~ web comprises three substantially straight sections.

58. (Currently Amended) The stent of claim 50, wherein transition sections interconnecting each web pattern to ~~neighboring other~~ web patterns are separated by three ~~arcuate~~ webs that define an S-shaped structure.

59. (Previously Presented) The stent of claim 50, wherein the stent is balloon expandable.

60. (Previously Presented) The stent of claim 50, wherein the stent comprises a deformable material.

61. (Previously Presented) The stent of claim 60, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.

62. (Previously Presented) The stent of claim 50, wherein the stent is self-expanding.

63. (Previously Presented) The stent of claim 50, further comprising a radiopaque feature.

64. (Currently Amended) Apparatus for supporting a vessel comprising:
a tube having proximal and distal ends and a lumen extending therebetween, the tube comprising a web structure having a collapsed state and an expanded state, the web structure comprising a plurality of ~~neighboring~~ web patterns ~~of alternating concavity~~, each web pattern including a plurality of ~~arcuate~~ webs, at least some of the ~~neighboring~~ web patterns interconnected by transition sections, the web patterns that define defining apertures between circumferentially adjacent transition sections, the apertures having three two adjacent intercommunicating S-shaped openings; and

a coating on the web structure that comprises a therapeutic agent.

65. (Previously Presented) The apparatus of claim 64, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.
66. (Currently Amended) The apparatus of claim 64, wherein the transition sections define H-shaped structures that span adjacent pairs of ~~arcuate~~ webs.
67. (Previously Presented) The apparatus of claim 66, wherein at least one of the H-shaped structures is disposed at an angle relative to a longitudinal axis of the tube.
68. (Currently Amended) The apparatus of claim 64, wherein each ~~arcuate~~ web comprises at least one substantially straight section.
69. (Currently Amended) The apparatus of claim 68, wherein each ~~arcuate~~ web comprises three substantially straight sections.
70. (Currently Amended) The apparatus of claim 64, wherein transition sections interconnecting a web pattern to another neighboring web pattern are separated by three ~~arcuate~~ webs that define an S-shaped structure.
71. (Previously Presented) The apparatus of claim 64, wherein the tube is balloon expandable.
72. (Previously Presented) The apparatus of claim 64, wherein the tube comprises a deformable material.
73. (Previously Presented) The apparatus of claim 72, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.
74. (Previously Presented) The apparatus of claim 64, wherein the tube is self-expanding.

75. (Previously Presented) The apparatus of claim 64, further comprising a radiopaque feature.

76. (Currently Amended) A stent comprising:

a tube having a web structure configured to transition between a contracted state and an expanded state, the web structure comprises a plurality of ~~neighboring~~ web patterns—~~of alternating concavity~~, each web pattern including a plurality of ~~arcuate webs~~ interconnected by bends, ~~neighboring~~ web patterns interconnected by transition sections, at least some of the transition sections between any two ~~neighboring~~ web patterns being circumferentially adjacent and arranged around the circumference of the tube with a common orientation and offset by at least two intervening bends, ~~each bend connected to at least two webs, each web having three web sections, at least two of web sections being nonparallel;~~ and

a coating on the web structure that comprises a therapeutic agent.

77. (Previously Presented) The stent of claim 76, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.

78. (Withdrawn) The stent of claim 76, wherein the arcuate webs have a first width relative to the circumference of "the tube, and the transition sections have a second width relative to the circumference of the tube, wherein the second width is about twice the first width.

79. (Withdrawn) The stent of claim 76, wherein the transition sections define H-shaped structures.

80. (Withdrawn) The stent of claim 79, wherein at least one of the H-shaped structures is disposed at an angle relative to a longitudinal axis of the tube.

81. (Withdrawn) The stent of claim 76, wherein each arcuate web comprises at least one substantially straight section.

82. (Withdrawn) The stent of claim 81, wherein each arcuate web comprises three substantially straight sections.

83. (Withdrawn) The stent of claim 76, wherein transition sections interconnecting each web pattern to neighboring web patterns are separated by at least three arcuate webs that define an S-shaped structure.

84. (Withdrawn) The stent of claim 76, wherein the stent is balloon expandable.

85. (Withdrawn) The stent of claim 76, wherein the stent comprises a deformable material.

86. (Withdrawn) The stent of claim 85, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.

87. (Withdrawn) The stent of claim 76, wherein the stent is self-expanding.

88. (Withdrawn) The stent of claim 76, further comprising a radiopaque feature.

89. (Withdrawn) A stent comprising:

a tube having proximal and distal ends and a lumen extending from the proximal to the distal end, the tube comprising a web structure having a contracted delivery state and an expanded deployed state,

wherein the web structure includes a plurality of neighboring web patterns of alternating concavity, each web pattern including a plurality of arcuate webs, neighboring web patterns interconnected by transition sections that span pairs of adjacent arcuate webs, at least some of the transition sections of neighboring patterns offset by at least one additional arcuate web; and

a coating on the web structure that comprises a therapeutic agent.

90. (Withdrawn) The stent of claim 89, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.

91. (Withdrawn) The stent of claim 89, wherein the transition sections define H-shaped structures.

92. (Withdrawn) The stent of claim 91, wherein at least one of the H-shaped structures is disposed at an angle relative to a longitudinal axis of the stent.

93. (Withdrawn) The stent of claim 89, wherein each arcuate web comprises at least one substantially straight section.

94. (Withdrawn) The stent of claim 93, wherein each arcuate web comprises three substantially straight sections.

95. (Withdrawn) The stent of claim 89, wherein transition sections interconnecting a web pattern to a neighboring web pattern are separated by three arcuate webs that define an S-shaped structure.

96. (Withdrawn) The stent of claim 89, wherein the stent is balloon expandable.

97. (Withdrawn) The stent of claim 89, wherein the stent comprises a deformable material.

98. (Withdrawn) The stent of claim 97, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.

99. (Withdrawn) The stent of claim 89, wherein the stent is self-expanding.

100. (Withdrawn) The stent of claim 89, further comprising a radiopaque feature.

101. (Withdrawn) Apparatus for supporting a vessel comprising:
a tubular body having a web structure defining a wall, the web structure configured to transition between a collapsed state and an expanded state,

wherein the web structure comprises a plurality of neighboring web patterns, each web pattern including a plurality of arcuate webs interconnected by bends, the arcuate webs of neighboring web patterns alternating between concave and convex forms relative to a longitudinal axis of the tubular body, the neighboring web patterns interconnected by H-shaped transition sections separated, around a circumference of the wall, by at least two bends; and a coating on the web structure that comprises a therapeutic agent.

102. (Withdrawn) The apparatus of claim 101, wherein the therapeutic agent is chosen from the group consisting of therapeutic agents that retard thrombus formation, therapeutic agents that retard restenosis, and therapeutic agents for systemic or local delivery via the blood stream.

103. (Withdrawn) The apparatus of claim 101, wherein the arcuate webs have a first width relative to the circumference of the tubular body, and the H-shaped transition sections have a second width, relative to the circumference of the tubular body, about twice the first width.

104. (Withdrawn) The apparatus of claim 101, wherein at least one of the H-shaped transition sections is disposed at an angle relative to a longitudinal axis of the tubular body.

105. (Withdrawn) The apparatus of claim 101, wherein each arcuate web comprises at least one substantially straight section.

106. (Withdrawn) The apparatus of claim 105, wherein each arcuate web comprises three substantially straight sections.

107. (Withdrawn) The apparatus of claim 101, wherein the H-shaped transition sections interconnecting each web pattern to neighboring web patterns are separated by three arcuate webs that define an S-shaped structure.

108. (Withdrawn) The apparatus of claim 101, wherein the tubular body is balloon expandable.

109. (Withdrawn) The apparatus of claim 101, wherein the tubular body comprises a deformable material.

110. (Withdrawn) The apparatus of claim 109, wherein the deformable material is chosen from the group consisting of stainless steel and titanium.

111. (Withdrawn) The apparatus of claim 101, wherein the tubular body is self-expanding.

112. (Withdrawn) The apparatus of claim 101, further comprising a radiopaque feature.